Analytic Network Process Decision Making Algorithm

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ABSTRACT
To identify an accurate decision model with a number of distinctive criteria and alternatives are considered to be difficult and complex. In this case, analytic network process (ANP) becomes a significant instrument with a character of accuracy among other complicated models which use a number of criteria with complex feedback interrelation. This paper aims at to present a comprehensive description of multi-criteria decision making techniques with a significant feature of ANP, which is considered as a more robust approach than AHP. The paper offers a brief analysis regarding the ANP methodology in complex multi-criteria decision making, and highlights some recommendations.

KEYWORDS
Operational research, multi-attribute decision making (MADM), multi-criteria decision making (MCDM), analytic network process (ANP)

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